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(21) International Application Number: PCT/DK00/00003 (22) International Filing Date: 4 January 2000 (04.01.00) (30) Priority Data: 99610002.0 5 January 1999 (05.01.99) EP (71) Applicant (for all designated States except US): OTICON A/S [DK/DK]; Strandvejen 58, DK-2900 Hellerup (DK). (72) Inventor; and (75) Inventor/Applicant (for US only): HANSEN, Kim, Vejlbj [DK/DK]; Skovbakken 56, DK-3520 Farum (DK).		(81) Designated States: AU, CA, JP, US. Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: A METHOD AND A DEVICE FOR PROVIDING IMPROVED SPEECH INTELLIGIBILITY <div style="text-align: center;"> <pre> graph LR Input[Target signal + noise] --> Mic1[Microphone 1 Directional] Input --> Mic2[Microphone 2 Omni-directional] Mic1 --> AD1[A/D] Mic2 --> AD2[A/D] AD1 --> Sep[Separation algorithm] AD2 --> Sep Sep --> Output[Target signal] subgraph CU [Calculation unit] Sep end </pre> </div>		
(57) Abstract <p>The invention relates to a method for reduction of noise in an audio signal containing noise and a target signal, the method comprising, providing at least two input signals; processing the input signals by means of an independent component analysis; hereby determining statistical dependencies of signal elements of the two input signals and determining whether statistical dependent signal elements form part of the target signal; outputting a part of the audio signal. The invention further relates to a device for use in reducing noise in an audio signal containing noise and a target signal.</p>		